



# **Treinamento na plataforma Questel Orbit aplicada a Metodologia da Pesquisa Científico-Tecnológica e Inovação (MET) do PROFNIT**

**Alexandre dos Santos e Glória Marinho**

**2020**

# Objetivos

- Apresentar aplicações do ORBIT aplicados a disciplina de MET;
- Discutir a importância da seleção de termos-chave;
- Importância da replicabilidade de buscas em estudos patentométricos.

# Habilidades

- O aluno deverá saber fazer uma busca assertiva por meio de operadores booleanos, truncagem e fórmulas;
- O aluno deverá provar a replicabilidade da busca realizada visando posterior publicação dos resultados.

# Definição

A patentometria se refere a indicadores patentários com vistas a identificar atividades de inovação e tecnologias através das informações tecnológicas contidas nos documentos de patentes. Possibilita determinar o grau aproximado de inovação tecnológica de uma determinada região, área ou instituição. (GUZMÁN, 1999; PEREIRA, 2008).

Fonte: GUZMÁN, M.V. **Patentometría: herramienta para el análisis de oportunidades tecnológicas**. 130f. Tese (Doutorado em Gerência de Información Tecnológica) – Facultad de Economía, Universidade de La Habana, Cuba, 1999.

PEREIRA, C. A. **O fluxo e as dimensões socioespacial e socioinstitucional do conhecimento em Ciência, Tecnologia & Inovação: um estudo patentométrico da produção tecnológica da Unicamp**. Dissertação (Mestrado em Ciência da Informação) Pontifícia Universidade Católica de Campinas, Campinas, SP, 2008.

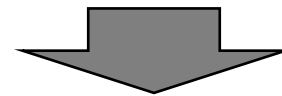
# Conceitos

## Reprodutibilidade

- Diferente grupo de pesquisa;
- Mesma base de dados;
- Mesma metodologia.

## Replicabilidade

- Diferente grupo de pesquisa;
- N base de dados;
- Diferentes conceitos / metodologias.



Mesmo resultado

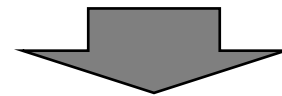
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- Mesma metodologia.

## Replicabilidade

- Diferente grupo de pesquisa;
- Base de dados;
- Diferentes conceitos / metodologias.



Mesmo resultado

# Case



## RESEARCH ARTICLE

# Scientometric and patentometric analyses to determine the knowledge landscape in innovative technologies: The case of 3D bioprinting

**Marisela Rodríguez-Salvador<sup>1\*</sup>, Rosa María Río-Belver<sup>2</sup>, Gaizka Garechana-Anacabe<sup>3</sup>**

**1** Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias, Monterrey, Nuevo León, Mexico, **2** Foresight, Technology and Management (FTM) Group. Industrial Organization and Management Engineering Department, University College of Engineering of Vitoria-Gasteiz, University of the Basque Country UPV/EHU, Basque Country, Spain, **3** Foresight, Technology and Management (FTM) Group. Industrial Organization and Management Engineering Department, Escuela Universitaria de Estudios Empresariales de Bilbao, University of the Basque Country UPV/EHU, Basque Country, Spain

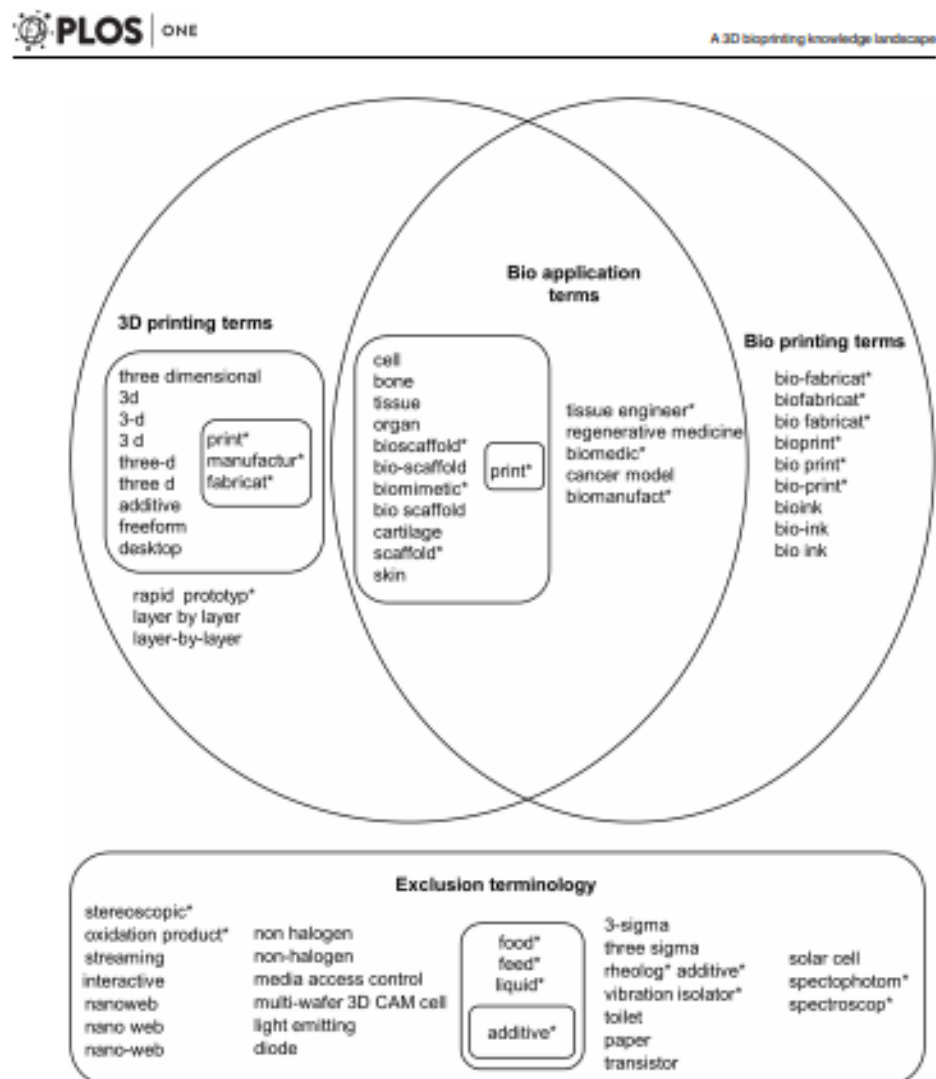
✉ These authors contributed equally to this work.

\* [marisrod@itesm.mx](mailto:marisrod@itesm.mx)



## Abstract

# Conceitos



**Fig 2. Main query terminology for the database searches.** Words marked with an asterisk (\*) are root words, indicating that all possible suffixes are covered under the query.

<https://doi.org/10.1371/journal.pone.0180375.g003>

## Supporting information

## Scientometric and patentometric analyses to determine the knowledge landscape in innovative technologies: The case of 3D bioprinting

Showing 1/4: S1 Appendix.docx

Patent query:

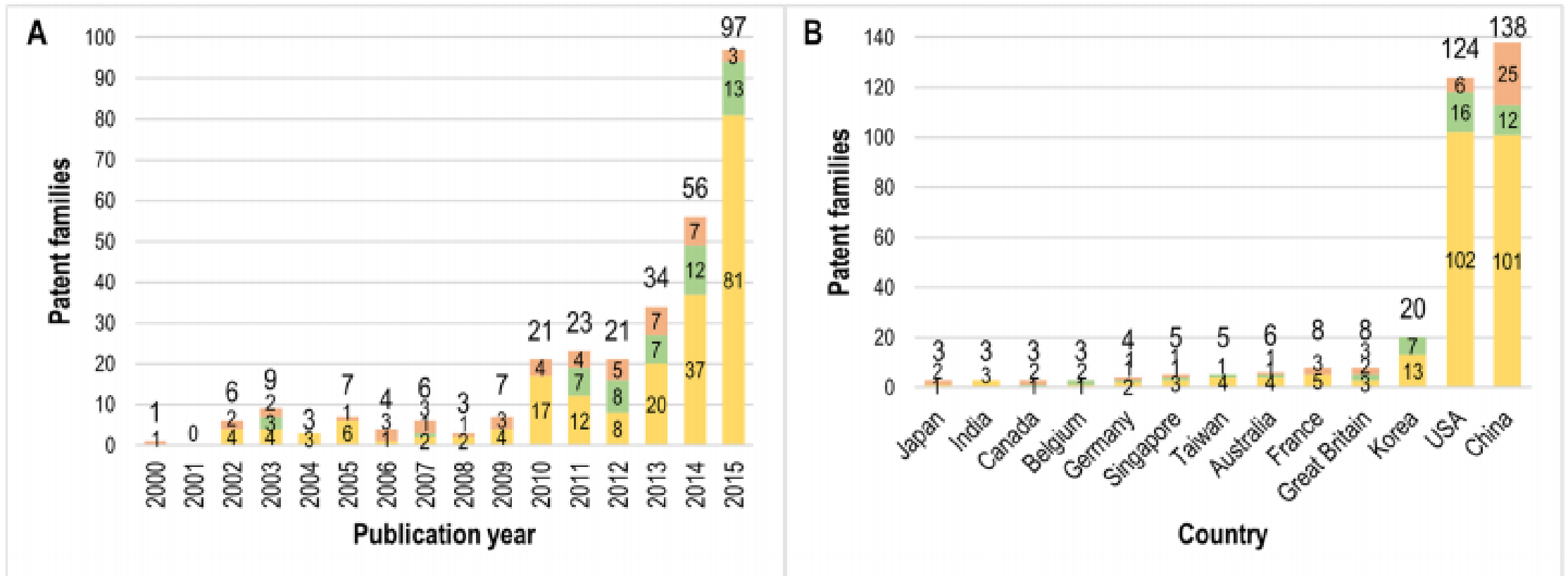
TAC: (((bio-fabricat\* OR biofabricat\* OR bioprint\* OR bio-print\* OR bioink OR bio-ink) OR (((three-dimensional OR 3d OR 3-d OR three-d OR additive OR freeform OR desktop) wd1 (print\* OR manufactur\* OR fabricat\*) OR rapid prototyp\* OR layer-by-layer) AND (((cell OR bone OR tissue OR organ OR bioscaffold\* OR bio-scaffold OR biomimetic\* OR bio-mimetic\* OR skin OR cartilage OR scaffold\*) wd1 (print\*)) OR (tissue engineer\* OR regenerative medicine OR biomedic\* OR cancer model\* OR biomanufactur\*)))) NOT (TAC: (stereoscopic\* OR oxidation product\* OR streaming interactive OR nanoweb OR nano-web OR nonhalogen OR non-halogen OR ((food\* OR feed\* OR liquid\*) w2 additive\*) OR media access control OR multi-wafer 3D CAM cell OR 3-sigma OR three sigma OR rheolog\* additive\* OR vibration isolator\* OR toilet OR paper OR transistor\* OR light emitting OR diode OR solar cell OR spectrophotom\* OR spectroscop\*)) AND PBD: [2000 to 2016-06-24]



# Resultados



A 3D bioprinting knowledge landscape



# Questão problema

- Qual o estado da arte patentométrico global do desenvolvimento de tecnologias empregando ensino EAD?

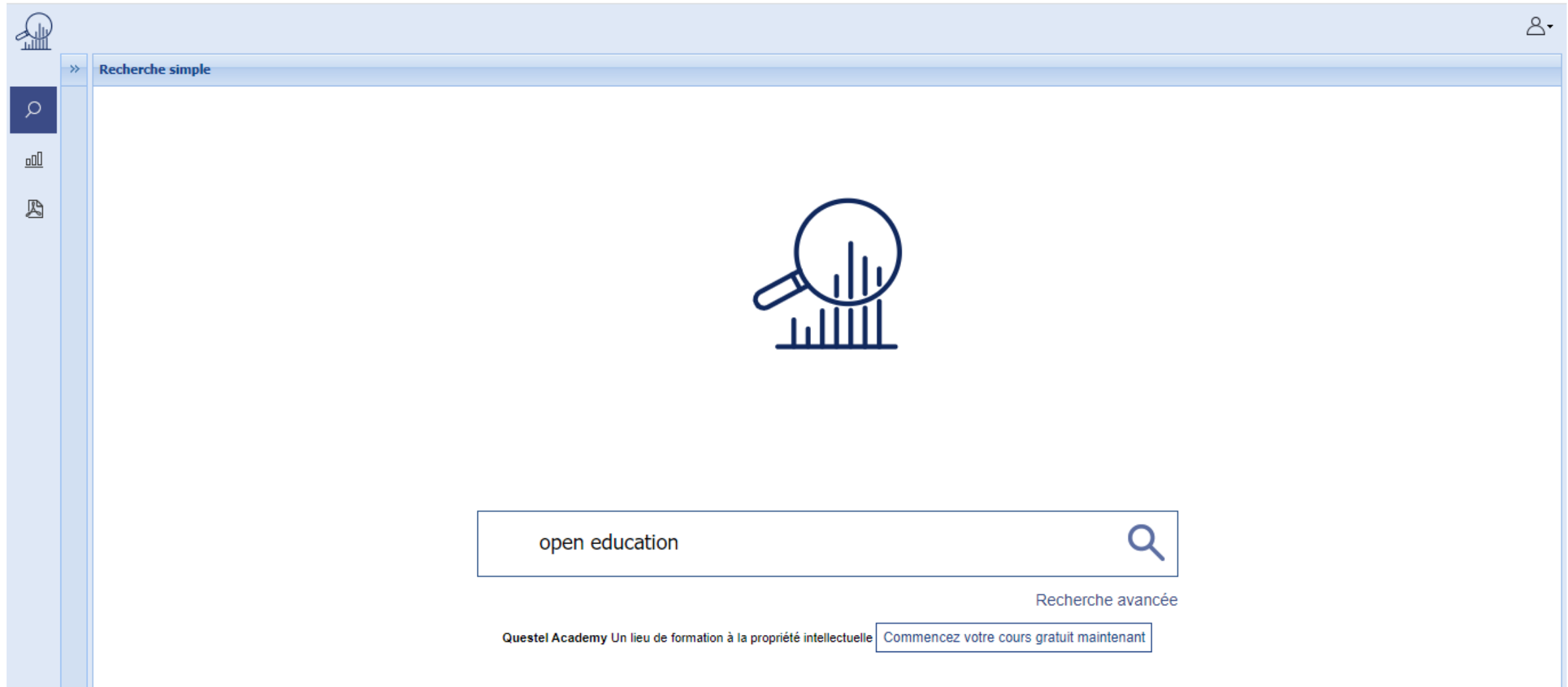
# Questão problema

- Qual o estado da arte patentométrico global do desenvolvimento de tecnologias empregando ensino EAD?

## Termos-chave

Educação à distância (PT)

open education; virtual learning; long-distance learning; distance learning (EN)



Recherche simple open education

**Familles de brevets - 1519 résultats**

Options de filtre

**Situation juridique**

- En vigueur (799)
- Pas en vigueur (720)

**1ère année de dépôt**

- Après 2015 (792)
- 2011-2015 (316)
- 2006-2010 (120)
- 2001-2005 (103)
- Avant 2001 (188)
- Plus...

**Dépôts ou titulaires**

**Litiges**

**Oppositions**

#	Title	Publication number	1st app. date	Applicant/Assignee	
1	The management method of online open market place for selective education which has an interactive solution	KR20090126505	2008-06-04	TIMESCORE	100 %
2	System for providing online open platform type education information	KR20080096865	2007-04-23	ZEROSPACE	100 %
3	An open type education platform and system based on the internet	CN106097812	2016-08-24	WEI MING	99 %
4	Processing search queries for open education resources	US20170011095	2015-07-10	FUJITSU	99 %
5	Ranking and recommendation of open education materials	US20140186817	2012-12-31	FUJITSU	99 %
6	Big data cloud platform system for campus open education	CN108648115	2018-04-24	ZHONGJIN A...	99 %
7	Area open type education big data basic cloud platform system	CN108416713	2018-04-24	ZHONGJIN A...	99 %
8	Method for meditating open market-type online education contents	KR20150104661	2014-03-05	KIM, KI-HOON	99 %
9	Open-ended modularization education robot control system	CN206154317	2016-09-20	SHANTOU UN...	99 %
10	A portable multi-functional workstation for open-air health education	CN204743245	2015-06-26	YIN YING	99 %
11	Education kit for open hardware	US20160225281	2015-01-29	KOREA UNIV...	99 %
12	Method of producing nanocapsules of dry extract of propolis	RU2018109610	2018-03-19	PRIVATE EDU...	99 %
13	Examination reading and appraising method and system and examination management system	CN110223204	2019-05-23	BEIJING OPE...	99 %
14	Automatic continuous integration	CN110200421	2019-05-23	BEIJING OPE...	99 %

Prévisualisation

The management method of online open market place for selective education which has an interactive solution

Traduire

Modifier la Prévisualisation

시작 100

로그인? 200

회원가입 프로세스

제공자? 300

이용자 프로세스

제공자 프로세스 400

수업 종료? 600

수업료 정산 700

800

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Elément 1 sur 1519

Affiche les références 1 - 25 sur 1519

https://www33.orbit.com/?locale=fr&embedded=false# 1 sur 61 > > | Elément 1 sur 1519 ^

Recherche simple open education

Familles de brevets - 1519 résultats Littérature non-brevet (LNB)

Sélection: 1519 Exporter...

Options de filtre:

- Situation juridique
  - En vigueur (799)
  - Pas en vigueur (720)
- 1ère année de dépôt
  - Après 2015 (792)
  - 2011-2015 (316)
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  - Avant 2001 (188)
  - Plus...
- Déposants ou titulaires
- Litiges
- Oppositions

#	Titre	Publication number	1st app. date	Applicant/Assignee	
1	The management method of online open market place for selective education which has an interactive solution	US201700126505	2008-06-04	TIMESCORE	100 %
2	System platform	US201700096865	2007-04-23	ZEROSPACE	100 %
3	An open type education platform and system based on the internet	US20170006097812	2016-08-24	WEI MING	99 %
4	Processing search queries for open education resources	US20170011095	2015-07-10	FUJITSU	99 %
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13	Examination reading and appraising method and system and examination management system	CN110223204	2019-05-23	BEIJING OPE...	99 %
14	Automatic continuous integration	CN110209421	2019-05-23	BEIJING OPE...	99 %

Prévisualisation

The management method of online open market place for selective education which has an interactive solution

시작 100

로그인? NO 200

YES

제공자? NO

YES

제공자프로세스

수업종료? NO

YES

수업료정산 800

Affiche les références 1 - 25 sur 1519

Recherche simple open education

Menu Filtre Exp

Options de filtre

**Situation juridique**

En vigueur (799)

Pas en vigueur (720)

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Plus...

**Déposants ou titulaires**

**Litiges**

**Oppositions**

Sélection

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**Options d'export**

**Format**

XLSX PDF RTF TXT CSV XML

**Données**

Profils Tableur

**Champs disponibles**

Numéros

Priority

Application

Publication

Family

Dates

Priority

Application

Filtre sur catégorie / nom de champ / code de c

Options avancées

**Champs sélectionnés**

Images (première)

Publication numbers (all, kind)

Publication dates (all)

Original document (1st)

Priority dates (orbit display)

Titles (orbit display)

Abstracts (orbit display)

Filtre...

Télécharger Email

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Elément 1 sur 1519

Affiche les références 1 - 25 sur 1519

Traduire

Editer la Prévisualisation

online open market place for selective education which

시작 100

로그인? NO

회원가입 프로세스

YES

제공자? NO

이용자프로세스

YES








자프로세스



수업종료? NO












































YES

업료정산 800



Salvamento Automático    6cbe19c0-5b55-429c-b908-f4ff5a861192-204840 - Excel  Pesquisar Alexandre dos Santos   

Arquivo **Página Inicial** Inserir Layout da Página Fórmulas Dados Revisão Exibir Ajuda Nitro Pro  Compartilhar  Comentários

Área de Transferência    Fonte Calibri 11                                           

# Termos-chave mais inteligentes com o uso de operadores

Educação à distância (PT)

open education; virtual learning; long-distance learning; distance learning (EN)

# Termos-chave mais inteligentes com o uso de operadores e truncagem

Educação à distância (PT)

open education; virtual learning; long-distance learning; distance learning (EN)

**90% mais assertividade e operacionalidade com AND, OR e NOT e truncagem de termos**

# 10% a mais com User notes Questel

Inspec on™ -




## User Notes Questel



### 6.6 Combining Terms (AND, OR, NOT, W, D,...) Use of Parentheses

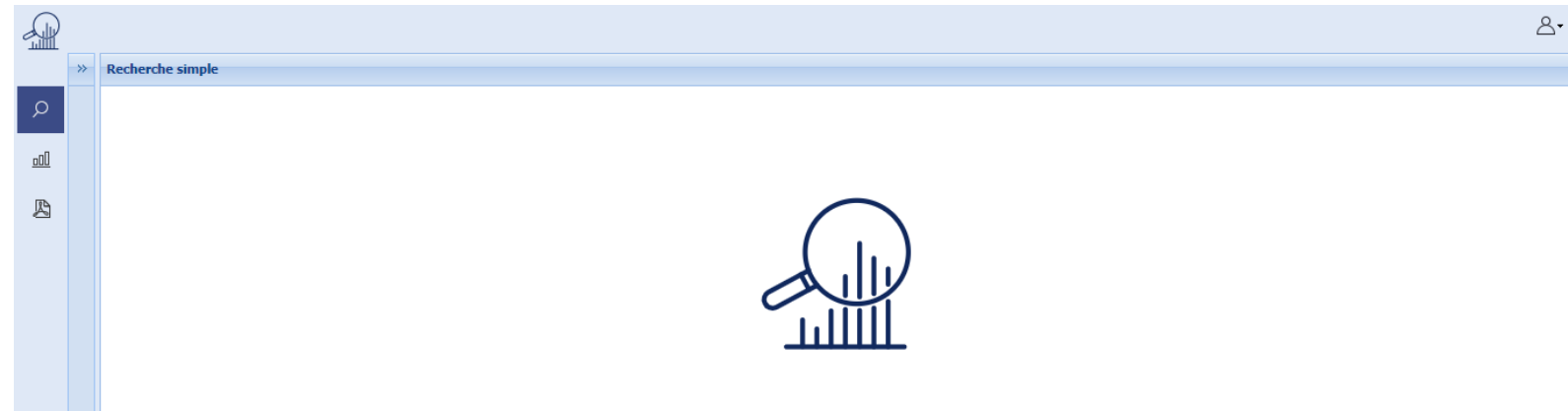
<ul style="list-style-type: none"> <li>Logical operators: <ul style="list-style-type: none"> <li>Records retrieved containing both terms (<b>AND</b>)</li> <li>Records containing at least one of the terms (<b>OR</b>)</li> <li>Records containing the first term but not the second (<b>NOT</b>)</li> <li>Single use of any Boolean or proximity operator with many search terms or search statements</li> <li>End a long line of entry with a space and hyphen "-" to continue entering more terms in same search statement</li> <li>Combining search result sets using search statement numbers</li> </ul> </li> </ul>	<p><b>PLUTONIUM AND ISOTOPE</b> <b>AIR OR TEMPERATURE</b></p> <p><b>COLA/MARK NOT CL32</b> <b>OR CAT,DOG,MOUSE,RABBIT</b></p> <p><b>OR CAT,DOG,MOUSE,RABBIT-</b> <b>HAMSTER,GERBIL</b> <b>5 OR 6</b> <b>1 OR 2 OR 3</b> <b>1 :3</b> <b>OR 1,2,3</b></p>
<p>Proximity operators (separated by spaces or parentheses):</p> <ul style="list-style-type: none"> <li><b>W</b> or (<b>W</b>): adjacent terms in order specified</li> <li><b>nW</b> or (<b>nW</b>): adjacent terms in order specified, separated by up to n words, where n is from 1 to 9.</li> <li><b>=nW</b> or (<b>=nW</b>): exactly n words between search terms</li> <li><b>D</b> or (<b>D</b>): adjacent terms in any order</li> <li><b>nD</b> or (<b>nD</b>): adjacent terms in any order, separated by up to n words</li> <li><b>=nD</b> or (<b>=nD</b>): exactly n words between search terms</li> </ul>	<p><b>NEW W YORK</b> or <b>NEW (W) YORK</b> <b>FILTER 3W FLOW</b></p> <p><b>METAL W METAL 3W BOND</b> <b>/AB LIGHT (=2W) DIODE</b> <b>TOWN? D PLANNING</b> <b>HEAT+ (3D) ELECTRIC??</b></p> <p><b>COMPOSITE? (=1D) (FIBRE? OR FIBER?)</b></p>

# Termos-chave mais inteligentes com o uso de operadores e truncagem

open education; virtual learning; long-distance learning; distance learning (EN)

open **AND** education

(**AND** open,education)



Recherche simple

Menu Explorateur << Recherche avancée

**Recherches**

- Recherche simple
- Recherche avancée
- Recherche sémantique
- Recherche par déposant
- Recherche par numéro

**Ma Session**

- Historique de recherche
- Résultat

**Sessions Précédentes**

- Historiques Précédents

**Mes Sauvegardes**

- Mes recherches
- Mes alertes

**Mes listes récentes**

**Mots-clés**

Concepts (open AND education)

Concepts Ex : Telecom+ OR phone

**Classifications**

**Noms**

**Numéros, Dates et Pays**

Numéro de publication Ex : EP0980063 Importer

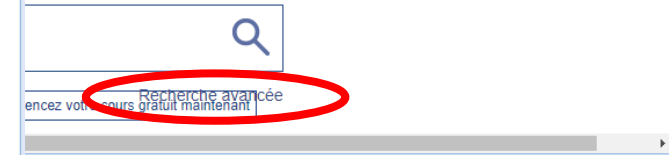
Date: Aucune Restriction

Pays de publication (Offices des brevets): Ex : US, EP

**Situation juridique**

**Autres champs**

Rechercher Voir la requête Créer un script Effacer



Recherche simple

Menu Filtre Exp

Options de filtre

Situation juridique

En vigueur (5338)

Pas en vigueur (4577)

1ère année de dépôt

Après 2015 (3789)

2011-2015 (2535)

2006-2010 (1262)

2001-2005 (1031)

Avant 2001 (1298)

Plus...

Déposants ou titulaires

Litiges

Oppositions

Familles de brevets - 9915 résultats

Sélection: 9915

#	Title	Publication number	1st app. date	Applicant/Assignee	
1	System for providing online open platform type education information	KR20080096885	2007-04-23	ZEROSPACE	100 %
2	The management method of online open market place for selective education which has an interactive solution	KR20090126505	2008-06-04	TIMESCORE	100 %
3	An open type education platform and system based on the internet	CN106097812	2016-08-24	WEI MING	100 %
4	Big data cloud platform system for campus open education	CN108648115	2018-04-24	ZHONGJIN A...	100 %
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10	Method for meditating open market-type online education contents	KR20150104661	2014-03-05	KIM, KI-HOON	100 %
11	Education kit for open hardware	US20160225281	2015-01-29	KOREA UNIV...	100 %
12	Method for compensating for a tank venting error in an adaptive learning system for metering fuel and apparatus therefor	US4831992	1986-11-22	ROBERT BOSCH	100 %
13	Method for p2p-based remote video education implemented on webpage	WO2012/000222	2010-07-02	SUZHOU CO...	100 %
14	Method and apparatus for operating teacher and student devices for a group activity	EP2667340	2013-05-14	SAMSUNG EL...	100 %
15	Omnidirectional prenatal education instrument	WO2019/104500	2017-11-28	SU ZHOU YO...	100 %
16	Remote education and apparatus via an internet	US6190178	1996-10-23	HANGER SOL...	100 %
17	Education services platform system use of	KR20160091712	2015-01-26	KOREA AERO	100 %



# Refinamento da busca

## Pensado à partir das hipóteses do trabalho



### RESEARCH ARTICLE

## Scientometric and patentometric analyses to determine the knowledge landscape in innovative technologies: The case of 3D bioprinting

Marisela Rodríguez-Salvador<sup>1\*</sup>, Rosa María Río-Belver<sup>2\*</sup>, Gaizka Garechana-Anacabe<sup>3\*</sup>

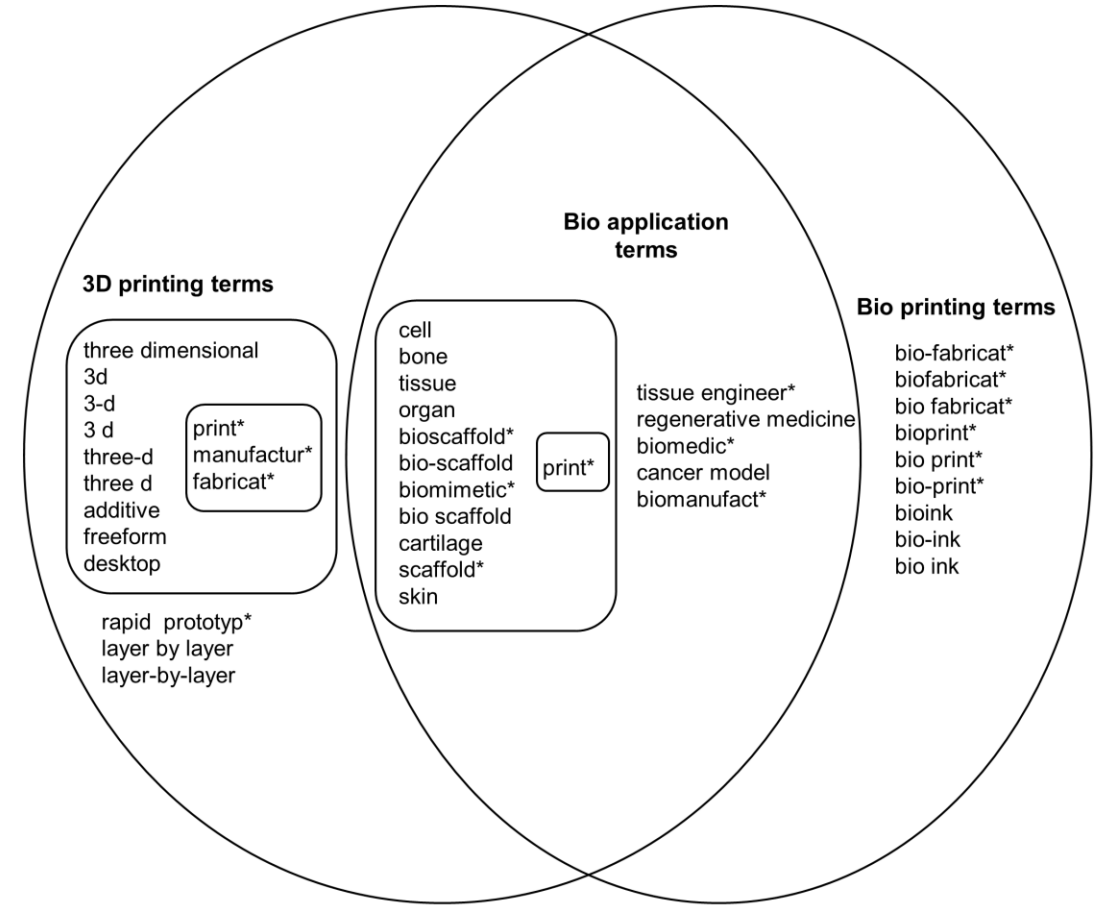
**1** Tecnológico de Monterrey, Escuela de Ingeniería y Ciencias, Monterrey, Nuevo León, Mexico, **2** Foresight, Technology and Management (FTM) Group, Industrial Organization and Management Engineering Department, University College of Engineering of Vitoria-Gasteiz, University of the Basque Country UPV/EHU, Basque Country, Spain, **3** Foresight, Technology and Management (FTM) Group, Industrial Organization and Management Engineering Department, Escuela Universitaria de Estudios Empresariales de Bilbao, University of the Basque Country UPV/EHU, Basque Country, Spain

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### Abstract



### Exclusion terminology

stereoscopic\*  
oxidation product\*  
streaming  
interactive  
nanoweb  
nano web  
nano-web

non halogen  
non-halogen  
media access control  
multi-wafer 3D CAM cell  
light emitting diode

food\*  
feed\*  
liquid\*  
additive\*

3-sigma  
three sigma  
rheolog\* additive\*  
vibration isolator\*  
toilet  
paper  
transistor

solar cell  
spectrophotom\*  
spectroscop\*



# Refinamento

(open **AND** education **AND** artificial **AND** intelligence)

**325 resultados**

Recherche simple ((open AND education AND artificial AND intelligence))/KEYW/TI/AB

Menu Filtre Exp

Familles de brevets - 325 résultats Littérature non-brevet (LNB)

Options de filtre

Situation juridique

- En vigueur (225)
- Pas en vigueur (100)

1ère année de dépôt

- Après 2015 (157)
- 2011-2015 (64)
- 2006-2010 (39)
- 2001-2005 (31)
- Avant 2001 (34)
- Plus...

Déposants ou titulaires

Litiges

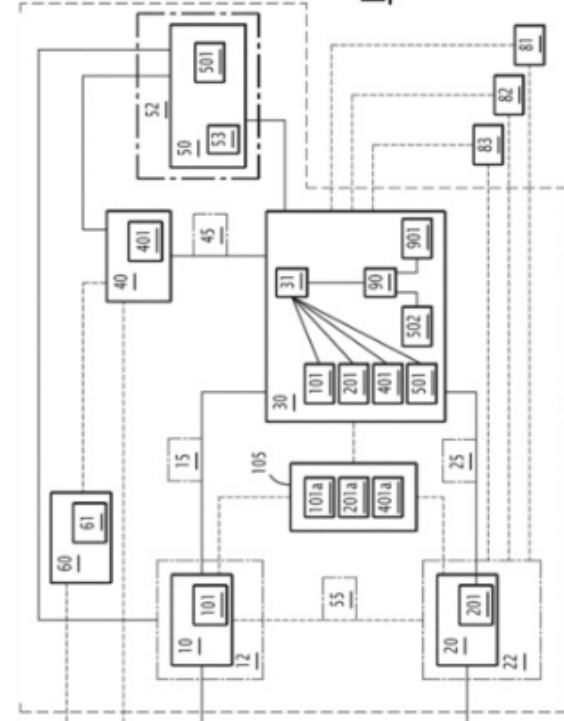
Oppositions

#	Title	Publication number	1st app. date	Applicant/Assignee	
1	Artificial intelligence system, process and method	WO2018/220205	2017-06-02	DAIGNE MICHEL	100 %
2	Clinical artificial intelligence system, process and method	EP3619718	2017-05-05	DAIGNE MICHEL	100 %
3	Artificial intelligence k12 education learning content management system	CN110059130	2019-05-13	SHANGHAI YI...	100 %
4	Big data cloud platform system for campus open education	CN108648115	2018-04-24	ZHONGJIN A...	99 %
5	Area open type education big data basic cloud platform system	CN108416713	2018-04-24	ZHONGJIN A...	99 %
6	Online education human-computer interaction method and system based on artificial intelligence	CN108961879	2018-07-18	XIA LU	99 %
7	An autopoietic network system endowed with distributed artificial intelligence for the supply of high volume high-speed multimedia telesthesia, telemetry, telekinesis, telepresence, telemanagement, telecommunications, and data processing s...	EP1131740	1998-08-13	INDRANET TE...	99 %
8	AI artificial intelligence auxiliary communication technology	CN110417637	2019-04-26	Cheng Hailin	99 %
9	Indoor household garbage automatic sorting device based on artificial intelligence	CN109665230	2018-12-18	NANJING AE...	99 %
10	Legal intelligence credit business: a business operation mode of artificial intelligence + legal affairs + business affairs	US20190332983	2019-07-10	LI AHE LI JIAXIN	99 %
11	Method for generation and matching of core capability genes based on artificial intelligence	KR10-1996916	2018-10-15	KYOLIMSOFT	99 %
12	Artificial intelligence k12 knowledge graph making management system and implementation method	CN110110096	2019-05-13	SHANGHAI YI...	99 %

Prévisualisation Image

Artificial intelligence system, process and method

FIG



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Affiche les références 1 - 25 sur 325

# Refinamento

(open **AND** education **AND** artificial **AND** intelligence) **NOT** (postgraduat\*)

**322 resultados**

Affiche les références 1 - 25 sur 322

# Refinamento

(open **AND** education **AND** artificial **AND** intelligence) **NOT** (postgraduat\*) **AND**  
(PD $\geq$ 2015)

**225 resultados**

# Refinamento

(open AND education AND artificial AND intelligence) NOT (postgraduat\*) AND

(PD>=2015)

**225 resultados**

((open AND education AND artificial AND intelligence) NOT (postgraduat\*))

AND (PD=2015:2020-04-22)

Recherche simple

(((open AND education AND artificial AND intelligence) NOT (postgraduate+)) AND (PD>=2015))/KEYW/ITI/AB

Familles de brevets - 225 résultats

Littérature non-brevet (LNB)

Options de filtre

Situation juridique

En vigueur (200)

Pas en vigueur (25)

1ère année de dépôt

Après 2015 (155)

2011-2015 (50)

2006-2010 (11)

2001-2005 (7)

Avant 2001 (2)

Plus...

Déposants ou titulaires

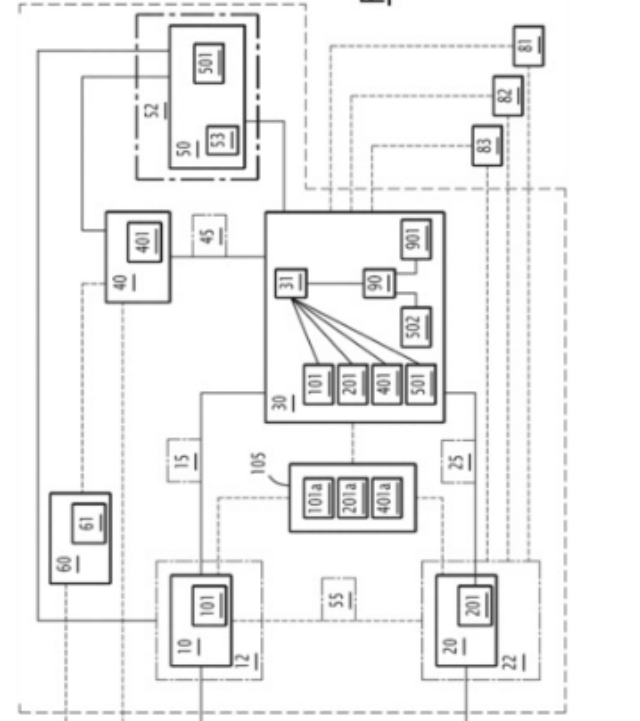
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9	Method for generation and matching of core capability genes based on artificial intelligence	KR10-1996916	2018-10-15	KYOLIMSOFT	99 %
10	Artificial intelligence k12 knowledge graph making management system and implementation method	CN110110096	2019-05-13	SHANGHAI YI...	99 %
11	Method for providing ai based rewardstyle education service playing on looked screen	KR10-2019-0132823	2018-05-21	Mino Communiz	99 %
12	Outdoor household garbage automatic sorting device based on artificial intelligence	CN109665231	2018-12-18	NANJING AE...	99 %
13	Global digital framework integrated to develop economically competitive municipalities	WO2018/065799	2016-10-06	EXXISTECH SUS	99 %
14	Education building and education system	WO2019/225928	2019-05-20	CHO JE	99 %

Artificial intelligence system, process and method

FIG



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Affiche les références 1 - 25 sur 225

# Refinamento

(open AND education AND artificial AND intelligence) NOT (postgraduat\*) AND  
(PD>=2015)

**225 resultados**

((open AND education AND artificial AND intelligence) NOT (postgraduat\*))  
AND (PD=2015:2020-04-22)



Recherche simple

Menu Filtre Exp <<

Familles de brevets - 225 résultats

Sélection: 225

Options de filtre

Situation juridique

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1ère année de dépôt

Après 2015 (155)

2011-2015 (50)

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Plus...

Déposants ou titulaires

Litiges

Oppositions

Options d'export

Format

XLSX PDF RTF TXT CSV XML

Données

Profils

Tableur

Champs disponibles

Numéros

Priority

Application

Publication

Family

Dates

Priority

Application

Champs sélectionnés

Images (première)

Publication numbers (all, kind)

Publication dates (all)

Original document (1st)

Priority dates (orbit display)

Titles (orbit display)

Abstracts (current)

Inventors

Filtre...

Filtre sur catégorie / nom de champ / code de c

Options avancées

Télécharger Email

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Elément 1 sur 225



Affiche les références 1 - 25 sur 225





















FIG










Traduire




Editer la Prévisualisation

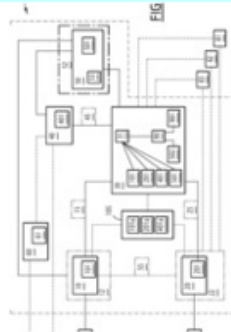
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Arquivo **Página Inicial** Inserir Layout da Página Fórmulas Dados Revisão Exibir Ajuda Nitro Pro  Compartilhar  Comentários

Área de Transferência  Fonte  Calibri 11       Alinhamento         Número  %  000  0.00  0.00

Formatação Condicional  Estilos  Estilos de Célula  Células  Inserir  Excluir  Formatar   Classificar e Filtrar  Localizar e Selecionar

A1    Images

	A	B	C	D	E	F	G	
1	Images	Publication numbers	Publica	Publication dates	Origina	Earliest priority date	Title	Alt
		FR3067142 WO2018/220205	A1 A1	2018-12-07 2018-12-06	<a href="#">Ouvrir</a>	2017-06-02	(WO2018220205) Artificial intelligence system, process and method	(W Ar me inv fo m da en to en na (E
2	<a href="#">Ouvrir</a>	EP3619718 FR3066039 WO2018/202873	A1 A1 A1	2020-03-11 2018-11-09 2018-11-08	<a href="#">Ouvrir</a>	2017-05-05	(EP3619718) Clinical artificial intelligence system, process and method	Th an co co fa re en pa a c on
3	<a href="#">Ouvrir</a>							

SHEET 

## Próximos passos: **Análise dos dados**

Interface gráfica Orbit - Planilha eletrônica (Excel, Calc) - R (tidverse/ggplot2) / Python (numpy/matplotlib)

< F.I.

> F.I

**#partiupraticar**